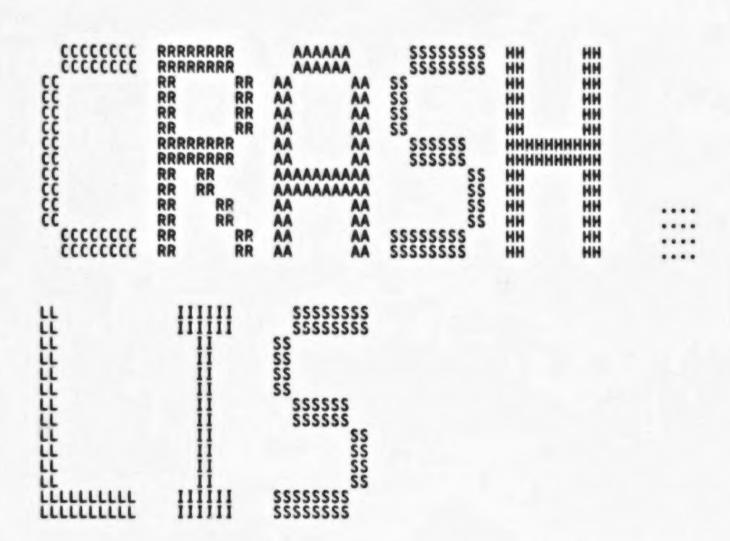
\$	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	AAAAAAA AAAAAAA AAAAAAA
\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	DDD DDD DDD DDD DDD DDD DDD	AAA AAA AAA AAA AAA AAA
\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$	DDD DDD DDD DDD DDD DDD DDD DDD DDD DDD	AAA AAA AAA AAA AAA AAA
\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	DDD	AAAAAAAAAAAAA AAA AAA AAA AAA AAA AAA
\$	DDDDDDDDDDDDDDDD	AAA AAA

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CRASH Table of	contents	DISPLAY CRASH RELATED INFORMATION	6	16-SEP-1984 01:25:55	VAX/VMS	Macro V04-00	Page	0
(1) (2) (3) (4) (5) (6) (7)	29 63 76 92 113 353 394	COPYRIGHT NOTICE PROGRAM DESCRIPTION DECLARATIONS STORAGE DEFINITIONS READ-ONLY DATA DEFINITIONS DISPLAY CRASH DISPLAY CRASH INFORMATION PRINT HEADER PRINT THE DUMP FILE HEADER GET_DUMP_INFO GET DUMP HEADER INFO	BLOCK	s				

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CRASH V04-000	DISPLAY CRASH RELATED INFORMATION 16-SEP-1984 01:25:55 VAX/VMS Macro V04-00 Page 5-SEP-1984 03:32:04 [SDA.SRC]CRASH.MAR;1
	0000 63 .SBTTL DECLARATIONS 0000 64: 0000 65: SYMBOL DEFINTIONS 0000 66: 0000 67
	0000 AR SEMBLEF CO ET HOS : CRASHDIMP EPPOP LOG ENTRY
	0000 69 SERLDEF : ERROR LOG DEFINITIONS 0000 70 SPCBDEF : PROCESS CONTROL BLOCK 0000 71 SPHDDEF : PROCESS HEADER DEFINITIONS 0000 72 SIFDDEF : IMAGE FILE DESCRIPTOR 0000 73 SPSLDEF : PROGRAM STATUS LONGWORD 0000 74 SSBDEF : SYSTEM BLOCK
	0000 71 SPHDDEF ; PROCESS HEADER DEFINITIONS 0000 72 SIFDDEF ; IMAGE FILE DESCRIPTOR
	0000 73 SPSLDEF PROGRAM STATUS LONGWORD SYSTEM BLOCK

DISPLAY CRASH RELATED INFORMATION 6
STORAGE DEFINITIONS CRASH VO4-000 16-SEP-1984 01:25:55 VAX/VMS Macro V04-00 5-SEP-1984 03:32:04 [SDA.SRC]CRASH.MAR;1 .SBTTL STORAGE DEFINITIONS STORAGE DEFINITIONS .PSECT SDADATA, NOEXE, WRT ERLPTR:: .BLKL 2 80000000 : ADDRESS OF ERROR LOG ENTRY .PSECT CRASH, EXE, NOWRT, LONG .DEFAULT DISPLACEMENT, LONG

LII

: LOOP UNTIL FOUND

LIB VO4

00000000'EF 52 5E 04 ADDRESS OF STRING LENGTH OF STRING PUSHL DD PUSHL 3. <Version of system: VAX/VMS VERSION !AD>
G*SCS\$GA_LOCALSB, R3 : Get address of to
#SB\$S_NODENAME, SP : Make scratch space
SP, R2 : Save address of second spaces. PRINT D0 C2 D0 53 00000000 GF MOVL Get address of local system block 10 5E Make scratch space for node name Save address of scratch SUBL MOVL SB\$T_NODENAME(R3), - (R2), #SB\$S_NODENAME GETMEM Get node name TSTB : Is the node name null? : Branch if null node name BEQL SKIP 52 DD PUSHL : Push node name copy address 160 1. <VAXcluster node name: !AC> 15\$: 162 163 164 165 166 167 SKIP IF NO MESSAGE ADDRESS OF MESSAGES #-3,EMB\$L_CR_CODE(R9),R0 00F4 C9 FD 8F ASHL BEQL 00000000 EF MOVAB L^BUGST_MESSAGES,R1 20\$: 9A CO F5 MOVZBL ADDL2 (R1)+,R2LENGTH OF MESSAGE 168 R2.R1 R0,20\$ SKIP TO NEXT MESSAGE

SOBGTR

			013	LAI CHASH	DISPLA	LKMSH	INFORMATI 3-3EP-1904 03:32:04 LSDA.SKCJCKASM.MAK; 1
		5	51 DD	00E0 170 00E2 171 00EB 173 00F8 173 00F8 173		PUSHL SKIP PRINT	R1 ; ADDRESS OF BUGCHECK MESSAGE 1, <reason !ac="" bugcheck="" exception:="" for=""></reason>
		30 §	0 E9 7C 7C 7C 6E D0	0105 176 0108 177 010A 178 010C 179		GETMEM BLBC CLRQ CLRQ MOVL GETMEM	aschsgl_curpcb R0,26s -(SP) -(SP) SP,R2 PCBST_LNAME(R1),(R2),#16; GET CURRENT PROCESS'S PCB RANCH IF DATA NOT AVAILABLE INITIALIZE A BUFFER TO HOLD REMEMBER ADDRESS OF BUFFER REMEMBER ADDRESS NAME
			0 CO	011D 181 011F 182 0128 183		PUSHL SKIP PRINT ADDL	; PROCESS NAME 1, Process currently executing: !AC> #16,SP; CLEAN BUFFER OFF STACK
	000000000	00000.E		013F 188	263:	CALLS MOVL TRYMEM	#0, CURPROC : SET TO CURRENT PROCESS MMG\$IMGHDRBUF,R1 : ADDRESS OF HEADER BUFFER 4(R1),R2 : GET ADDRESS OF IFD R0,30\$: IF NOT AVAILABLE IFD\$W_FILNAMOFF(R1) : GET OFFSET TO FILE NAME
	5E 0000	000FF 8	60 E9 60 E9 61 32 6F C2 6E D0	0155 190 0156 191 0160 193 0163 193 0166 194 0160 195 0170 196		BLBC TRYMEM BLBC CVTWL SUBL MOVL	MMG\$IMGHDRBUF,R1 ; ADDRESS OF HEADER BUFFER 4(R1),R2 ; GET ADDRESS OF IFD ; GET ADDRESS OF IFD ; IF NOT AVAILABLE ; IF NOT AVAILABLE ; GET OFFSET TO FILE NAME ; BRANCH IF NOT AVAILABLE ; CONVERT TO LONGWORD ; ALLOCATE BUFFER FOR FILESPEC SP,RO
		10 5		0182 197 0185 198 0187 199		TRYMEM BLBC PUSHL SKIP PRINT	(R2)[R1],(R0),#255 ; GET ASCIC IMAGE FILE NAME R0,30\$; BRANCH IF NOT AVAILABLE SP 2 1+<255/4>, <current !ac="" file:="" image=""></current>
7E	64 A9	05 1	0 EF	01A1 201 01A1 202 01A1 203 01A7 204	30\$:	EXTZV SKIP PRINT	<pre>#PSL\$V_IPL,#PSL\$S_IPL,EMB\$L_CR_PSL(R9),-(SP) 2 1,<current !ul="" (decimal)="" ipl:=""></current></pre>
				01C6 208 01DE 209 01EB 210		SKIP ENSURE PRINT SKIP	5 7 0, <general registers:=""></general>
				01F4 211 01F4 213 01F4 214 01F4 214		BACK FR	BUGCHECK CODE WAS ANY OF THE ONES THAT COME OM THE CONSOLE ROM VIA POWERFAIL RESTART, THEN PRINT THE REGISTERS AS THEY HAVE BEEN WIPED OUT.
	50 00F4 51	C9 C	7 CB F DE	01F4 216 01FA 217 01FF 218	40\$:	BICL3 MOVAL	#7, EMB\$L_CR_CODE(R9), R0 : BUGCHECK CODE (CLEAR FLAG) RESTART_BUGS, R1 : TABLE OF RESTART BUGCHECKS
		81 5	00 D1 06 13 01 D5 7 12 7 11	01F4 216 01F4 216 01FA 217 01FF 218 020F 220 0204 221 0206 222 020A 223 020A 223 020A 223	403:	CMPL BEQL TSTL BNEQ BRB	RO (R1)+ 45\$: CHECK IF MATCHES 45\$: BRANCH IF SO (R1) : END OF TABLE? 40\$: CONTINUE UNTIL DONE 50\$: PRINT REGISTERS
		50 A	19 DD	020A 225 020D 226	45\$:	PUSHL PUSHL	EMB\$L_CR_R11(R9) : PSL EMB\$L_CR_R10(R9) : PC

LIB VO4

		DISP	LAY CRASH	RELATED 1	NFORMAT NY CRASH	ION 16-SEP-1984 01:25:55 VAX/VMS Macro V04-00 Page 8 INFORMATI 5-SEP-1984 03:32:04 [SDA.SRC]CRASH.MAR;1 (5)
	C9 A9 A9	DD DD DD 31 1	0210 0210 0210 0225 0233 0235 0235 0225 0225 0225 022	27 28 30 31 33 33 35 35 35 35 36 37 38	PRINT SKIP PRINT SKIP PRINT SKIP PUSHL PUSHL PRINT PRINT PRINT	<pre>2,<!--_PC = !XL PSL = !XL--> 0,<!--_Remaining registers not available wiped out by console--> 0,<processor registers:=""> EMB\$L_CR_SCBB(R9) EMB\$L_CR_SCBB(R9) EMB\$L_CR_SBR(R9) 1,<!--_SBR = !XL--> 1,<!--_SLR = !XL--> 1,<!--_SCBB = !XL--> 1,<!--_SCBB = !XL--> 60\$; PRINT KSP-ISP REGISTERS</processor></pre>
		31	0286 2	40 508:	BRW	60\$; PRINT KSP-ISP REGISTERS
30 20 28 24	A9 A9 A9	DD DD DD	0286 2 0289 2 028C 2 028F 2	39 40 50\$: 41 42 43 44	PUSHL PUSHL PUSHL PUSHL	EMB\$L_CR_R3(R9) EMB\$L_CR_R2(R9) EMB\$L_CR_R1(R9) EMB\$L_CR_R0(R9) 4, R0 = !XL R1 = !XL R2 = !XL R3 = !XL EMB\$L_CR_R7(R9) EMB\$L_CR_R6(R9) EMB\$L_CR_R5(R9)
40 30 38 34	A9 A9 A9	00 00 00	029F 2 02A2 2 02A5 2 02A8 2	46 47 48	PUSHL PUSHL PRINT PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL	EMB\$[CR R7(R9) EMB\$[CR R6(R9) EMB\$[CR R5(R9) EMB\$[CR R4(R9)
50 40 48 44	A9 A9 A9	DD DD DD	283 0286 0286 0286 0286 0287 0287 0297 0297 0298 0298 0298 0298 0298 0298 0298 0298	49 50 51 52 53	PUSHL PUSHL PUSHL PUSHL	EMBSL CR R4(R9) 4, R4 = !XL R5 = !XL R6 = !XL R7 = !XL EMBSE CR R11(R9) EMBSL CR R10(R9) EMBSL CR R9(R9) EMBSL CR R8(R9)
60 50 58 54	A9 A9 A9	DD DD DD	02D1 2 02D4 2 02D7 2 02DA 2	56 57 58	PUSHL PRINT PUSHL PUSHL PUSHL PUSHL PRINT	4. R8 = !XL R9 = !XL R10 = !XL R11 = !XL EMB\$[CR P((R9)) EMB\$[CR SP(R9)) EMB\$[CR FP(R9) EMB\$[CR AP(R9)] 4. AP = !XL FP = !XL SP = !XL PC = !XL
64	A9	DD	02ED 20 02FA 20 0303 20 0318 20 0328 20	66	PRINT PUSHL PRINT SKIP ENSURE PRINT SKIP	EMB\$L CR_PSL(R9) 1, _PSL = !XL
			0331 2 0331 2 0331 2	67 : 68 : We ca 69 : value 70 :	n't use from t	the CPUDISP macro here because we have to get the EXE\$GB_CPUTYPE he appropriate dump file.
09	50	E9	0331 2 033E 2 0341 2 0341 2 0341 2 0344 2	71 72 73 74 75 76	GETMEM BLBC CASE	GET TYPE OF CPU RO.780\$ R1.TYPE=B LIMIT=#PR\$_SID_TYP780 <780\$ 750\$> GET TYPE OF CPU IF NOT FOUND. ASSUME 11/780 DISPATCH ON CPU TYPE 11/780 11/750 ALL OTHERS USE 11/780
			034A 2	79	11/780	INTERNAL REGISTERS
009C 0080 68	C9 C9 A9	DD DD	034A 2 034A 2 034A 2 034E 2 0352 2	79 : 80 : 81 780\$: 82	PUSHL PUSHL PUSHL	EMB\$L_CR_ACCS(R9) EMB\$L_CR_PCBB(R9) EMB\$L_CR_POBR(R9)

LIE VO4

PRINT

PUSHL

PUSHL

PUSHL PRINT

PUSHL PRINT

SKIP

60\$:

.<!_

0080 C9 0094 C9

0098 (9

7C A9

DD

DD

DD

DD

047B 047E 048B 048F

= !XL

= !XL

= !XL>

TODR

CAER

= !XL>

CMIERR = !XL>

ICCS

ICR

L18

DISPLAY CRASH RELATED INFORMATION 16-SEP-1984 01:25:55 DISPLAY_CRASH -- DISPLAY CRASH INFORMATI 5-SEP-1984 03:32:04 VAX/VMS Macro V04-00 [SDA.SRC]CRASH.MAR;1

Page 10 (5)

20	A9	DD	04A5	341	PUSHL	EMBSL_CR_ISP(R9)
10 18 14	A9 A9	DD DD DD	04A8 04B5 04BB	343 344 345	PRINT PUSHL PUSHL PUSHL	1, ISP = !XL EMB\$C_CR_USP(R9) EMB\$L_CR_SSP(R9) EMB\$L_CR_ESP(R9)
10	A9	UU	048E 04C1 04CE 04DB	347 348 349	PUSHL PRINT PRINT PRINT PRINT	EMB\$L CR XSP(R9) 1, RSP = !XL 1, ESP = !XL 1, SSP = !XL 1, USP = !XL
		04	04F5	351	RET	1,4037

LIE VO4

SUBL 2 BGTR

.DSABL

LSB

RET

: CONTINUE UNTIL DONE

14

53

LIE

(6)

EXTZV

BEGL MOVL

BRB

#PSLSV_IS,EMBSL_CR_PSL(R9),58

; BRANCH IF ISP

13 00 11

ΕO

0590

059E

450

105:

LIL

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CRASH Symbol table	DISPLAY CRASH RE	ELATED INFORMATION 7	16-SEP-1984 01:25:55 VAX/VMS Macro V04-00 5-SEP-1984 03:32:04 [SDA.SRC]CRASH.MAR;1	Page 14 (7)
ALLOCATE ARGS BUGST MESSAGES BUGST MESSAGES BUGS CHMONIS BUGS-DBLERR BUGS-DBLERR BUGS-ERRHALT BUGS-HALT BUGS-ILLVEC BUGS-IVLISTK BUGS-NOUSRWCS CURPROC CURPROC CURPROC CURPROT SYSTEM DMPSL-CRASHERL EMBSL-CR-ACCS EMBSL-CR-CADE EMBSL-CR-CA	= 00000003 ******* ****** ****** ****** ****** ****	O3 EMB\$L_CR_SBISC EMB\$L_CR_SBITA EMB\$L_CR_SISR EMB\$L_CR_SP EMB\$L_CR_TDDR EMB\$L_CR_TDDR EMB\$L_CR_TDDR EMB\$L_CR_TDDR EMB\$L_CR_TDDR EMB\$L_CR_TBDR EMB\$L_	= 00000084 = 00000084 = 00000084 = 00000084 = 0000007C = 0000007C = 00000018 = 00000008 = 000000000 = 000000000 = 000000000 = 00000000	

LIE

Psect synopsis

CRASH

*-----Psect synopsis !

PSECT name Allocation PSECT No. Attributes 00000000 00000000 00000008 0000069b 000006CC SABS\$ 00 ABS ABS REL NOVEC BYTE LCL NOSHR NOEXE NORD NOWRT NOPIC NOPIC NOPIC NOPIC CON EXE USR NOSHR RD WRT SDADATA CRASH WRT NOVEC BYTE NOWRT NOVEC LONG NOWRT NOVEC BYTE USR NOEXE RD NOSHR EXE USR REL RD NOSHR LITERALS USR CON LCL NOSHR RD

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.06	00:00:00.93
Command processing	146	00:00:00.48	00:00:03.66
Pass 1	146 297	00:00:05.83	00:00:24.15
Symbol table sort	0	00:00:00.61	00:00:01.00
Pass 2	111	00:00:01.50	00:00:05.27
Symbol table output	15	00:00:00.06	00:00:00.08
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	ō	00:00:00.00	00:00:00.00
Assembler run totals	608	00:00:08.56	00:00:35.11

The working set limit was 1650 pages.
52887 bytes (104 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 573 non-local and 70 local symbols.
495 source lines were read in Pass 1, producing 32 object records in Pass 2.
31 pages of virtual memory were used to define 30 macros.

Macro library statistics !

Macro library name Macros defined \$255\$DUA28:[SDA.OBJ]SDALIB.MLB;1 \$255\$DUA28:[SYS.OBJ]LIB.MLB;1 \$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries) 107

745 GETS were required to define 27 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:CRASH/OBJ=OBJ\$:CRASH MSRC\$:CRASH/UPDATE=(ENH\$:CRASH)+EXECML\$/LIB+LIB\$:SDALIB/LIB

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